

202270

SUBJECT Gas Turbine-Driven Locomotive Designed
by Brückner & Kanis, Dresden

DATE OF INFO

25X1X

CONFIDENTIAL

- Total Unit:**

Condenser:

This document is hereby regraded to
CONFIDENTIAL in accordance with
letter of 16 October 1978 from the
Director of Central Intelligence to the
Archivist of the United States.
Next Review Date: 2003

Normal amount of fuel per combustion chamber: about .215 kg per second
 Temperature of gas at the burner: about 2,000°C.
 Amount of air for combustion for each combustion chamber: about 3.64 kg per second : about 2.82 Nm³ per second
 Amount of cooling air per combustion chamber : about 20.74 kg. per second = 16.05 Nm³ per second

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[illegible]

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Document No.

NO CHANGE in Class.

☒ DECLASSIFIED

Class. CHANGED TO: TS

DDA Memo, 4 Apr 37

Auth: RDB 8484- 77 1783

Approved: _____
Date: 2/28/98

SECRET

Extracted by E.I.R.

Auth: ~~TOP SECRET~~ Approved For Release 2001/03/05 : CIA-RDP82-00417R001500720007-0
Date: 7/4/82

CENTRAL INTELLIGENCE AGENCY

202270

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~~CONFIDENTIAL~~Turbine:

Normal entry temperature of gas at full load: 620°C
Normal entry pressure of gas at full load: 3.31 ata
Back pressure: 1.05 ata
Normal exit temperature of gas at full charge: 410°C
Normal number of turbine revolutions: 4,500 per minute
Normal number of generator revolutions: 1,500 per minute
The turbine is said to develop 4,500 h.p.

Measurements:

Height of combustion chamber:	ca. 1800 mm.
Diameter of combustion chamber:	ca. 500 mm.
Connection line between combustion chamber and turbine:	2 x 480 mm.
Exhaust braces of the turbine (2 parts):	2 x 800 x 750 mm.

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